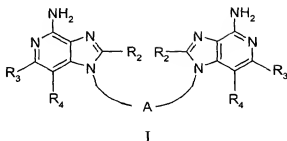


WHAT IS CLAIMED IS:

1. A compound of the formula (I):



wherein:

A is a divalent linking group selected from the group consisting of:

straight or branched chain C_{4-20} alkylene;
straight or branched chain C_{4-20} alkenylene;
straight or branched chain C_{4-20} alkynylene; and
-Z-Y-W-Y-Z-;

each Z is independently selected from the group consisting of:

straight or branched chain C_{2-20} alkylene;
straight or branched chain C_{4-20} alkenylene; and
straight or branched chain C_{4-20} alkynylene;
any of which may be optionally interrupted by -O-, -N(R₅)-, or -S(O)₂-;

each Y is independently selected from the group consisting of:

a bond;
-N(R₅)C(O)-;
-C(O)N(R₅)-;
-N(R₅)C(O)N(R₅)-;
-N(R₅)S(O)₂-;
-S(O)₂N(R₅)-;
-OC(O)O-;
-OC(O)-;
-C(O)O-;
-N(R₅)C(O)O-; and
-OC(O)N(R₅)-;

W is selected from the group consisting of:

straight or branched chain C₂₋₂₀ alkylene;
 straight or branched chain C₂₋₂₀ alkenylene;
 straight or branched chain C₄₋₂₀ alkynylene;
 straight or branched chain perfluoro C₂₋₂₀ alkylene;

5

C₁₋₄ alkylene-O-C₁₋₄ alkylene;

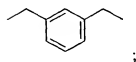
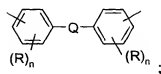
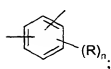
-C(O)-;

-S(O)₂-;

-OC(O)O-;

-N(R₅)C(O)N(R₅)-;

10



1,5-naphthylene;

2,6-pyridinylene;

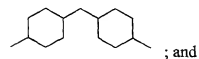
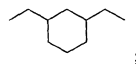
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1,2-cyclohexylene;

1,3-cyclohexylene;

1,4-cyclohexylene;

trans-1,4-cyclohexylene;



20

trans-5-norbornene-2,3-diyl;

wherein n is 0 - 4; each R is independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ alkoxy, and halogen; and Q is selected from the group consisting of a bond, -CH₂-, and -O-;

R₂ is selected from the group consisting of:

- hydrogen;
- alkyl;
- alkenyl;
- 5 -aryl;
- substituted aryl;
- heteroaryl;
- substituted heteroaryl;
- alkyl-X-alkyl;
- 10 -alkyl-X-aryl;
- alkyl-X- alkenyl; and
- alkyl or alkenyl substituted by one or more substituents selected from the
group consisting of:
- OH;
- 15 -halogen;
- N(R₆)₂;
- C(O)-N(R₆)₂;
- C(S)-N(R₆)₂;
- S(O)₂-N(R₆)₂;
- 20 -N(R₆)-C(O)-C₁₋₁₀ alkyl;
- N(R₆)-C(S)-C₁₋₁₀ alkyl;
- N(R₆)- S(O)₂-C₁₋₁₀ alkyl;
- C(O)-C₁₋₁₀ alkyl;
- C(O)-O-C₁₋₁₀ alkyl;
- 25 -N₃;
- aryl;
- substituted aryl;
- heteroaryl;
- substituted heteroaryl;
- 30 -heterocyclyl;
- substituted heterocyclyl;
- C(O)-aryl;

-C(O)-(substituted aryl);
-C(O)-heteroaryl; and
-C(O)-(substituted heteroaryl);

R₃ and R₄ are each independently selected from the group consisting of:

5 -hydrogen;
 -halogen;
 -alkyl;
 -alkenyl;
 -X-alkyl; and

10 -N(R₆)₂;

or when taken together, R₃ and R₄ form a fused aryl or heteroaryl ring that is unsubstituted or substituted by one or more substituents selected from the group consisting of:

 -halogen;
15 -alkyl;
 -alkenyl;
 -X-alkyl; and
 -N(R₆)₂;

20 or when taken together, R₃ and R₄ form a fused 5 to 7 membered saturated ring, containing 0 to 2 heteroatoms and unsubstituted or substituted by one or more substituents selected from the group consisting of:

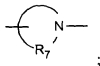
 -halogen;
 -alkyl;
 -alkenyl;
25 -X-alkyl; and
 -N(R₆)₂;

each R₅ is independently selected from the group consisting of:

 hydrogen;
 C₁₋₆ alkyl;
30 C₃₋₇ cycloalkyl; and
 benzyl; or

when Y is -N(R₅)C(O)-, -C(O)N(R₅)-, -N(R₅)C(O)N(R₅)-, -N(R₅)S(O)₂-,

-S(O₂)N(R₅)-, -N(R₅)C(O)O-, or -OC(O)N(R₅)- and the nitrogen of the N(R₅) group is bonded to Z, then R₅ can join with Z to form a ring having the structure



each R₆ is independently hydrogen or C₁₋₁₀ alkyl;

R₇ is C₃₋₈ alkylene; and

X is -O- or -S-;

with the proviso that if W is -C(O)-, -S(O)₂-, -OC(O)O-, or -N(R₅)C(O)N(R₅)- then each Y is a bond;

or a pharmaceutically acceptable salt thereof.

10

2. A compound or salt of claim 1 wherein A is straight or branched chain C₄₋₂₀ alkylene.

3. A compound or salt of claim 1 wherein A is -Z-Y-W-Y-Z-.

15

4. A compound or salt of claim 3 wherein Z is straight or branched chain C₂₋₂₀ alkylene optionally interrupted by -O-.

5. A compound or salt of claim 4 wherein Z is selected from the group consisting of straight or branched chain C₂₋₄ alkylene and C₁₋₄ alkylene-O-C₁₋₄ alkylene.

20

6. A compound or salt of claim 3 wherein R₅ is joined with Z to form a ring having



the structure

wherein R₇ is C₄₋₆ alkylene;

25

7. A compound or salt of claim 3 wherein each Y is independently selected from the group consisting of:

a bond;

$-N(R_5)C(O)-$;

$-C(O)N(R_5)-$;

$-N(R_5)C(O)N(R_5)-$;

$-S(O)_2N(R_5)-$; and

$-N(R_5)S(O)_2-$.

8. A compound or salt of claim 7 wherein R_5 is hydrogen.

10 9. A compound or salt of claim 3 wherein W is selected from the group consisting of
straight or branched chain C_{2-20} alkylene;

$-N(R_5)C(O)N(R_5)-$;



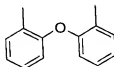
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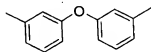
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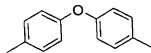
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;



;



;

1,2-cyclohexylene;

1,3-cyclohexylene;

1,4-cyclohexylene; and

trans-1,4-cyclohexylene.

10. A compound or salt of claim 1 wherein R₂ is selected from the group consisting of hydrogen, alkyl, and alkyl-O-alkyl.
- 5 11. A compound or salt of claim 10 wherein R₂ is selected from the group consisting of hydrogen, methyl, ethyl, propyl, butyl, cyclopropylmethyl, ethoxymethyl and methoxyethyl.
12. A compound or salt of claim 1 wherein R₃ and R₄ taken together form a fused
10 benzene ring.
13. A compound or salt of claim 1 wherein R₃ and R₄ taken together form a fused pyridine ring.
- 15 14. A compound or salt of claim 1 wherein R₃ and R₄ taken together form a six membered saturated ring.
15. A compound or salt of claim 1 wherein R₃ and R₄ taken together form a six membered saturated ring containing a nitrogen atom.
20
16. A compound or salt of claim 1 wherein R₃ and R₄ are independently selected from the group consisting of hydrogen and alkyl.
17. A compound selected from the group consisting of:
25 N,N'-bis[4-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]urea;
N,N''-1,3-phenylenebis{N'-[4-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]urea};

- N*-[4-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]-*N'*-(4-{{[4-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]amino}carbonyl}amino}phenoxy}phenyl)urea;
N,N'-*trans*-1,4-cyclohexylenebis{*N'*-[4-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]urea};
N,N-bis(2-{2-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]ethoxy}ethyl)benzene-1,3-disulfonamide;
N,N-bis(2-{2-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]ethoxy}ethyl)terephthalamide;
N,N'-1,8-octanediylbis[*N'*-(2-{2-[4-amino-2-(methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]ethoxy}ethyl)urea]; and
1-[10-(4-amino-2-ethoxymethyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)decyl]-2-ethoxymethyl-1*H*-imidazo[4,5-*c*]quinoline-4-amine;
or a pharmaceutically acceptable salt thereof.
18. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt of claim 1 and a pharmaceutically acceptable carrier.
19. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt of claim 17 and a pharmaceutically acceptable carrier.
20. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a compound or salt of claim 1 to the animal.
21. The method of claim 20 wherein the compound or salt is administered topically.
22. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a compound or salt of claim 17 to the animal.

23. The method of claim 22 wherein the compound or salt is administered topically.

24. A method of treating a viral disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 1 to the animal.

5

25. The method of claim 24 wherein the compound or salt is administered topically.

26. A method of treating a viral disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 17 to the animal.

10

27. The method of claim 26 wherein the compound or salt is administered topically.

28. A method of treating a neoplastic disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 1 to the animal.

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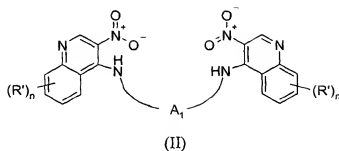
29. The method of claim 28 wherein the compound or salt is administered topically.

30. A method of treating a neoplastic disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 17 to the animal.

20

31. The method of claim 30 wherein the compound or salt is administered topically.

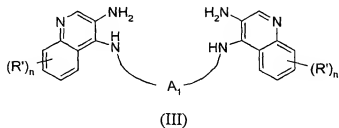
32. A compound of Formula (II):



wherein:

- 5 A_1 is a divalent linking group selected from the group consisting of:
straight or branched chain C_{4-20} alkylene;
straight or branched chain C_{4-20} alkenylene; and
straight or branched chain C_{4-20} alkynylene;
any of which may be optionally interrupted by $-\text{S}(\text{O})_2-$ or a protected
10 $-\text{C}(\text{O})-$;
 n is 0 to 4;
each R' present is independently selected from the group consisting of:
halogen;
alkyl;
15 alkenyl; and
 $-\text{O}-\text{alkyl}$;
or a pharmaceutically acceptable salt thereof.

33. A compound of Formula (III):



wherein:

- 20 A_1 is a divalent linking group selected from the group consisting of:
straight or branched chain C_{4-20} alkylene;
straight or branched chain C_{4-20} alkenylene; and
25 straight or branched chain C_{4-20} alkynylene; and

straight or branched chain C₄₋₂₀ alkynylene;

any of which may be optionally interrupted by -S(O)₂- or a protected

-C(O)-;

n is 0 to 4;

5 each R' present is independently selected from the group consisting of:

halogen;

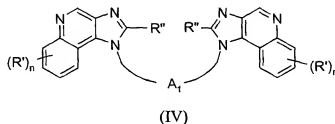
alkyl;

alkenyl; and

-O-alkyl;

10 or a pharmaceutically acceptable salt thereof.

34. A compound of Formula (IV):



15 wherein:

A₁ is a divalent linking group selected from the group consisting of:

straight or branched chain C₄₋₂₀ alkylene;

straight or branched chain C₄₋₂₀ alkenylene; and

straight or branched chain C₄₋₂₀ alkynylene;

20 any of which may be optionally interrupted by -S(O)₂- or a protected

-C(O)-;

R'' is selected from the group consisting of:

-hydrogen;

-alkyl;

25 -alkenyl;

-aryl;

-substituted aryl;

-heteroaryl;

-substituted heteroaryl;

-alkyl-O-alkyl;
 -alkyl-O-aryl;
 -alkyl-O- alkenyl; and
 -alkyl or alkenyl substituted by one or more substituents selected from the
 5 group consisting of:
 -OH;
 -halogen;
 -C(O)-N(R₆)₂;
 -C(S)-N(R₆)₂;
 10 -S(O)₂-N(R₆)₂;
 -N(R₆)-C(O)-C₁₋₁₀ alkyl;
 -N(R₆)-C(S)-C₁₋₁₀ alkyl;
 -N(R₆)- S(O)₂-C₁₋₁₀ alkyl;
 -C(O)-C₁₋₁₀ alkyl;
 15 -C(O)-O-C₁₋₁₀ alkyl;
 -N₃;
 -aryl;
 -substituted aryl;
 -heteroaryl;
 20 -substituted heteroaryl;
 -heterocyclyl;
 -substituted heterocyclyl;
 -C(O)-aryl;
 -C(O)-(substituted aryl);
 25 -C(O)-heteroaryl; and
 -C(O)-(substituted heteroaryl);

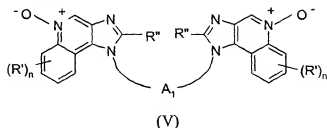
n is 0 to 4;

each R' present is independently selected from the group consisting of:

30 halogen;
 alkyl;
 alkenyl; and
 -O-alkyl;

each R₆ is independently hydrogen or C₁₋₁₀ alkyl;
or a pharmaceutically acceptable salt thereof.

35. A compound of Formula (V):



wherein:

A₁ is a divalent linking group selected from the group consisting of:

straight or branched chain C₄₋₂₀ alkylene;

straight or branched chain C₄₋₂₀ alkenylene; and

straight or branched chain C₄₋₂₀ alkynylene;

any of which may be optionally interrupted by -S(O)₂- or a protected
-C(O)-;

R'' is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

-substituted aryl;

-heteroaryl;

-substituted heteroaryl;

-alkyl-O-alkyl;

-alkyl-O-aryl;

-alkyl-O- alkenyl; and

-alkyl or alkenyl substituted by one or more substituents selected from the
group consisting of:

-OH;

-halogen;

-C(O)-N(R₆)₂;

- C(S)N(R₆)₂;
- S(O)₂-N(R₆)₂;
- N(R₆)-C(O)-C₁₋₁₀ alkyl;
- N(R₆)-C(S)-C₁₋₁₀ alkyl;
- 5 -N(R₆)-S(O)₂-C₁₋₁₀ alkyl;
- C(O)-C₁₋₁₀ alkyl;
- C(O)-O-C₁₋₁₀ alkyl;
- N₃;
- aryl;
- 10 -substituted aryl;
- heteroaryl;
- substituted heteroaryl;
- heterocyclyl;
- substituted heterocyclyl;
- 15 -C(O)-aryl;
- C(O)-(substituted aryl);
- C(O)-heteroaryl; and
- C(O)-(substituted heteroaryl);
- n is 0 to 4;
- 20 each R' present is independently selected from the group consisting of:
- halogen;
- alkyl;
- alkenyl; and
- O-alkyl;
- 25 each R₆ is independently hydrogen or C₁₋₁₀ alkyl;
- or a pharmaceutically acceptable salt thereof.